

Patent [19]

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[54] POLYMERIZATION OF ETHYLENE OF ALPHA-OLEFIN

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[57] ABSTRACT

PURPOSE: To obtain a polymer of high quality, by deactivating the remaining catalyst when switching a catalyst system in polymerizing ethylene or an α -olefin by alternately using specified two catalyst systems of different properties in the same plant.

CONSTITUTION: Two catalyst systems, i.e., a nonsupported catalyst system (A) based on titanium trichloride (-containing composition) and an organoaluminum compound and a supported catalyst system (B) based on an organoaluminum compound and a supported catalyst formed by allowing a magnesium compound to support a transition metal component are prepared. Ethylene or an α -olefin is (co)polymerized by alternately using the catalyst systems A and B in the same plant. When switching from catalyst A to catalyst B or from catalyst B to catalyst A in the above polymerization, the polymerization process and its main upstream lines are treated with a catalyst deactivator (e.g., ethanol or diethylene glycol monopropyl ether) to deactivate the remaining catalyst.

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